Product specification

Name: WiFi LED Controller

Model: WF300



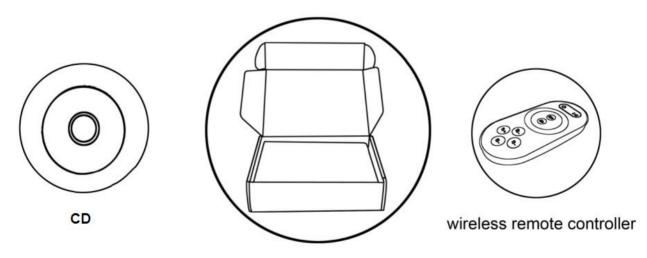
I. Product Summarization

1. Product constitute

1. LED-WiFi Controller	It is the core of product, responsible for receive control signal	
1. LED-WIFI CONTINUE	and control LED equipment.	
2. RF remote control	In the condition of not use the mobile phone as remote control,	
	you can choose RF remote control to control LED.	
2 A diak	Include IOS operating system and Android operating system	
3. A disk	mobile soft.	



WIFI-LED controller



Product composition picture

2. Summarization

LED-WiFi controller is following the traditional with infrared, RF technology controller foundation, it is birth of market and customer's demand, it is one type controller which integration the newest wifi technical in the market. It makes the LED control more convenience, more hommization. We can use an Android system or IOS system mobile phone to install control software, then it can control LED, this is the wishes of every customer.

Use WiFi technology can make our control range more wider, can get rid of narrow space constraint, in building can control more than 50m, in outdoor can control more than 100m.

In the condition of not use the mobile software, also can use the remote control to control, very convenience, bring many choices for you.

II. Technical Parameters

1. Remote control technical parameters

- 1: Working temperature: -20-60 $^\circ\!\mathrm{C}$
- 2: Power supply method: AAA*3
- 3: Supply voltage: 1.5V*3
- 4: Standby power: 0.015mW
- 5: Standby current: 3uA
- 6: Working current: 200uA
- 7: Emission current: 10mA
- 8: Remote control distance: about 30m
- 9: Standby time: 6 month

2. Software technical parameters

- 1: Name: Magic Color
- 2: Runtime platform: Android version support Android system(better one can support Samsung, HTC), IOS version support IOS system, equipment must have WiFi function.
- 3: Language: English
- 4: Category: communications
- 5: Free, green, no plug-ins

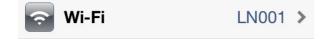
3. Controller technical parameters

- 1: Working voltage: DC5--24V
- 2: Output control: SPI signal output
- 3: Output current: 4A*3
- 4: Connect mode: SPI signal wires(DATA, CLK)
- 5: External dimension: L107*W65*H30 (mm)
- 6: Receiving sensitivity: 802.11b DSSS(-5dBm), 802.11b CCK (-10dBm), 802.11g OFDM(-15dBm)

III. Magic Color Instruction

1. WIFI Connect

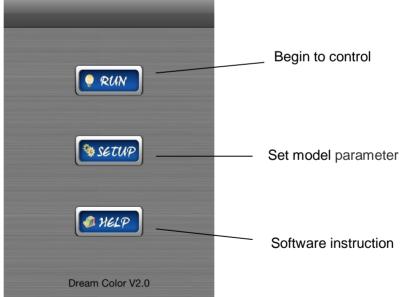
After power on the controller, open the cellphone set of WIFI, search WIFI network, you will check WIFI equipment is named LN+number, for example"LN001", "LN003" and so on, as picture:



The number after LN is controller SSID code, same controller can set different code, when in the same network environment have many controllers, it can distinguish. About the SSID setting, will be in details below.

2. Software setting

After connect the WIFI, open the application Magic Color enter the following interface:

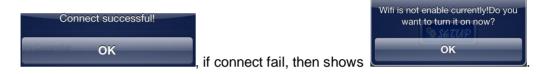


Above picture "RUN" is enter remote control interface, before enter this interface, need to set the software parameter first. Click the "SETUP" in middle to setting.

At this moment it will enter below interface:

	Back	
	Setting	1
	Simulation	
	Sound	2
	WiFi Controller	
	WF100,	_ 3
4	WF200,	
	WF300,	

1: Dropped connect again button. When the cellphone use this software, because the lock screen or other reasons result in WIFI can not remote, click this key, if connect successful, then shows



- 2: Press the key sound.
- 3: Controller model choose.
- 4: Controller parameter setting.

This product model is WF300, so choose "WF300", and then it will enter below interface:

	PI Setting	16	Maximum support point
Strip RGB sequency	Led Sequence	IC Type	Strip IC model
	RGB	LDP6803	
	RBG	TM1803	
	GRB	UCS1903	

Setting adjustable control strip maximum support point(range 16~1024), strip IC model (10 kinds), strip RGB sequency. Because in the market, many strip the specificate is different, some the sequency is RGB, some is RBG, GRB and so on, so this setting method can suit for all have sequency strip.

3. Remote control

When have set up after the above parameters, click "Back" to return to the main interface, click "RUN" to control the strip, it will enter below interface:

Back	ON -	On/Off
_		Speed
01 RED	1	
02 GREEN	2	
03 BLUE	3	Brightness
<u>32</u>	• •	Digititess
	01 RED 02 GREEN 03 BLUE	01 RED 1 02 GREEN 2 03 BLUE 3

When switch in this state, controller open; When switch in this state, state, controller off, and at this time it is locked state, unless on/off key, other keys can not use.

In the mode column, in total have 83 kinds of modes, the first 7 modes is static mode, at this time can through nether brightness slider to adjust the brightness of strip, in total 32 levels, other modes can not adjust brightness(remark: LD6803 strip, all modes can not adjust brightness).

Except the first 7 modes, others is all dynamic modes, at this time can through speed slider to adjust speed, in total 99 levels, the value is more big, the speed is more quick.

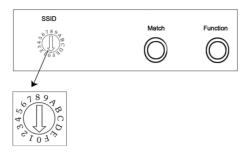
Play/Pause key can stop the running mode, just suitable for dynamic modes.

IV. LED-WiFi Controller Function Instruction

Indicator light	Function table
Power	Power indicator light, long-time bright shows power supply normally
Wifi	Free time long-time bright, have wifi data enter flicker, configuration wifi Ssid off
Link	Have wifi date enter, then flicker, no wifi data, then off.
RF	Have RF remote data or press key operate, then flicker, free time off.

1. Working state instruction

2. Setting SSID number



The dial code is used for setting LED-WiFi controller Ssid number, corresponding table as below. Form 0 to 15, have 16 code in total, so our Ssid number fasten to LN001 to LN016. That means use our product in same small area can set 16 mutual isolation LAN, once the dial code changed after switch was dialed, Ssid number immediately be modified, so you need to note that it need to search and connect again.

code	SSID
0	LN001
1	LN002
2	LN003
3	LN004
4	LN005
5	LN006
6	LN007
7	LN008
8	LN009
9	LN010
А	LN011
В	LN012
С	LN013
D	LN014
E	LN015
F	LN016

3. Connect LED, Power supply port

LED Strip according model connect corresponding port.

4. Match Key function

The first time use the controller and remote control, maybe because the controller address and remote control address is not match, it will cause the remote control can not control, at this time, it need to use this button to make this 2 address matched.

Use method: first, press the controller "Match" key, at the same time press any key of the remote control, more than 2s, now the remote control indicator light RF will flicker 3 times, release "Match" key,

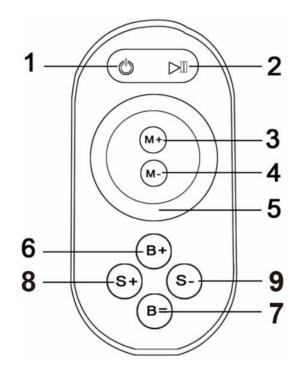
then finished.

5. Function key function

¡Function; key is a composite button, it have switch and mode change function. Function instruction: long-time(more than 2s): on off;

Short press(less than 1s): mode change.

6. Remote control function instruction



1. ON/OFF	2. pause	3. MODE+	4. MODE-
5. Color pulley touch button		6. Brightness+	7. Brightness-
8. SPEED+	9. SPEED-		

- 1. Controller panel have 64 touch point, and the function as follow:
 - 1. ON/OFF, you can turn on/off controller output at any time;
 - 2. Pause, at dynamic mode, you can stop the controller at the current state;
 - 3. This button have 2 functions :
 - ①Mode + choice key, when current control pattern is pulley pattern (color), if must realize the pattern (color)in the controller, can press this key.
 - ②mode switch button, for the current control mode, you can switch M + key which is specified mode (color) in the table.
 - 4. This button have 2 functions :
 - ①Mode choice key, when current control pattern is pulley pattern (color), if must

realize the pattern (color)in the controller, can press this key.

2 mode switch button, For the current control mode, you can switch M + key which is specified mode (color) in the table.

- 5. The output brightness control key, every time you press this button, the brightness series add 1, altogether 32 levels.
- 6. The output brightness control key, every time you press this button, the brightness series minus 1, altogether 32 levels.
- 7. The output speed control key, every time you press this button, the brightness series add 1, altogether 99 levels.
- 8. The output speed control key, every time you press this button, the brightness series minus 1, altogether 99 levels.
- 9. Color pulley touch button, static mode choose button, up to 55 touch points. this button have 2 functions:
 - static color choose button, when current control mode is the mode of M key(color), if you want to realize static color ,can press this button.
 pulley color choose button, can choose from 55 kinds of static mode (the color from pulley).
- 2. Power supply management: stop to use the remote more than 20s, the remote will enter the standby state (untouchable state), to extend the battery life; slightly shake once, then the remote will come back to the normal working state (touchable state).
 - Notice: This remote control only can change the pattern, the brightness, the speed, if you want to change the controller IC model, the IC support point, the RGB sequency, then must connect WIFI through cell phone to change.

Modes	Mode instruction	
1	Static red	
2	Static green	
3	Static blue	
4	Static yellow	
5	Static purple	
6	Static cyan	
7	Static white	
8	Red horse race to right	
9	Red horse race to left	
10	Green horse race to right	
11	Green horse race to left	
12	Blue horse race to right	
13	Blue horse race to left	

7. Controller built-in mode table

15 Green horse race draw curtain 16 Three base color horse race brush forward direction 17 Three mixing color horse race brush 18 Three mixing color horse race brush draw curtain 19 Three mixing color horse race brush draw curtain 20 Seven-color horse race brush braw direction 21 Seven-color horse race brush draw curtain 23 Seven-color horse race brush backward direction 24 Three base color brush backward direction 25 Three base color brush howard direction 26 Three mixing color brush backward direction 27 Three base color brush backward direction 28 Seven-color brush backward direction 29 Seven-color brush backward direction 30 Three base color brush direction 31 Three base color brush direction 32 Seven-color brush direction 33 Seven-color brush lower curtain 34 Three base color brush direction 35 Seven-color jump change 36 Three base color jump change 37 Three base color strobo			
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39Green-blue-yellow three color wave by wave running forward direction40Blue-yellow-cyan three color wave by wave running backward direction41Three mixing color three color wave by wave running forward direction42Three mixing color three color wave by wave running backward direction43Blue-yellow-cyan three color wave by wave running forward direction44Green-blue draw curtain45Blue-yellow lower curtain46Seven-color wave forward direction47Seven-color wave backward direction48Blue trail backward direction50Red trail forward direction51Green trail forward direction52Green trail forward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	37	Three mixing color jumpy change	
40Blue-yellow-cyan three color wave by wave running backward direction41Three mixing colorthree color wave by wave running forward direction42Three mixing colorthree color wave by wave running backward direction43Blue-yellow-cyan three color wave by wave running forward direction44Green-blue draw curtain45Blue-yellow lower curtain46Seven-color wave forward direction47Seven-color wave backward direction48Blue trail backward direction50Red trail forward direction51Green trail forward direction52Green trail forward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	38	Seven-color jumpy change	
41Three mixing colorthree color wave by wave running forward direction42Three mixing colorthree color wave by wave running backward direction43Blue-yellow-cyan three color wave by wave running forward direction44Green-blue draw curtain45Blue-yellow lower curtain46Seven-color wave forward direction47Seven-color wave backward direction48Blue trail backward direction50Red trail forward direction51Green trail forward direction52Green trail forward direction53Blue trail backward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	39	Green-blue-yellow three color wave by wave running forward direction	
42Three mixing colorthree color wave by wave running backward direction43Blue-yellow-cyan three color wave by wave running forward direction44Green-blue draw curtain45Blue-yellow lower curtain46Seven-color wave forward direction47Seven-color wave backward direction48Blue trail backward direction49Red trail forward direction50Red trail forward direction51Green trail backward direction52Green trail forward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	40	Blue-yellow-cyan three color wave by wave running backward direction	
43Blue-yellow-cyan three color wave by wave running forward direction44Green-blue draw curtain45Blue-yellow lower curtain46Seven-color wave forward direction47Seven-color wave backward direction48Blue trail backward direction49Red trail forward direction50Red trail backward direction51Green trail forward direction52Green trail forward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	41	Three mixing color three color wave by wave running forward direction	
44Green-blue draw curtain45Blue-yellow lower curtain46Seven-color wave forward direction47Seven-color wave backward direction48Blue trail backward direction49Red trail forward direction50Red trail backward direction51Green trail backward direction52Green trail backward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	42	Three mixing color three color wave by wave running backward direction	
45Blue-yellow lower curtain46Seven-color wave forward direction47Seven-color wave backward direction48Blue trail backward direction49Red trail forward direction50Red trail backward direction51Green trail forward direction52Green trail backward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	43	Blue-yellow-cyan three color wave by wave running forward direction	
46Seven-color wave forward direction47Seven-color wave backward direction48Blue trail backward direction49Red trail forward direction50Red trail backward direction51Green trail forward direction52Green trail backward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	44	Green-blue draw curtain	
47Seven-color wave backward direction48Blue trail backward direction49Red trail forward direction50Red trail backward direction51Green trail forward direction52Green trail backward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	45	Blue-yellow lower curtain	
48Blue trail backward direction49Red trail forward direction50Red trail backward direction51Green trail forward direction52Green trail backward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	46	Seven-color wave forward direction	
49Red trail forward direction50Red trail backward direction51Green trail forward direction52Green trail backward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	47	Seven-color wave backward direction	
50Red trail backward direction51Green trail forward direction52Green trail backward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	48	Blue trail backward direction	
51Green trail forward direction52Green trail backward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	49	Red trail forward direction	
52Green trail backward direction53Blue trail forward direction54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	50	Red trail backward direction	
53 Blue trail forward direction 54 Yellow trail forward direction 55 Cyan trail forward direction 56 Purple trail backward direction 57 White trail forward direction	51	Green trail forward direction	
54Yellow trail forward direction55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	52	Green trail backward direction	
55Cyan trail forward direction56Purple trail backward direction57White trail forward direction	53	Blue trail forward direction	
56 Purple trail backward direction 57 White trail forward direction	54	Yellow trail forward direction	
57 White trail forward direction	55	Cyan trail forward direction	
	56	Purple trail backward direction	
58 White trail backward direction	57	White trail forward direction	
	58	White trail backward direction	

59	Seven-color running trail backward direction	
60	Seven-color running trail forward direction	
61	Change color cyan-red-cyan forward direction	
62	Change color purple-red-purple forward direction	
63	Change color purple-red-purple backward direction	
64	Change color yellow-green-yellow forward direction	
65	Change color yellow-green-yellow backward direction	
66	Change color cyan-green-cyan forward direction	
67	Change color cyan-green-cyan backward direction	
68	Change color purple-blue-purple forward direction	
69	Change color purple-blue-purple backward direction	
70	Change color cyan-blue-cyan forward direction	
71	Change color cyan-blue-cyan backward direction	
72	Change color white-red-white forward direction	
73	Change color white-red-white backward direction	
74	Change color green-red-green forward direction	
75	Change color blue-red-blue backward direction	
76	Change color yellow-red-yellow forward direction	
77	Change color yellow-red-yellow backward direction	
78	Change color red-yellow-red	
79	Change color red-purple-red	
80	Change color green-cyan-green	
81	Change color green-yellow-green	
82	Change color blue-purple-blue	
83	Automatically play 8~82	

V. Explain installed hardware

1. Install ANT

<u></u>

ANT's installation drawing:

clockwise install WIFI antenna and

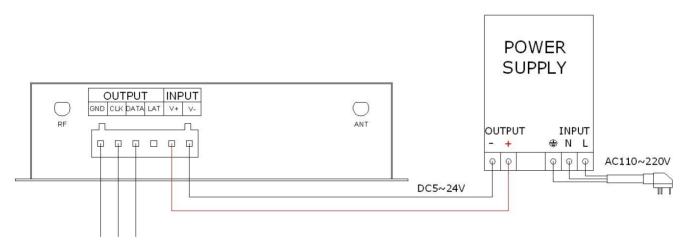
anticlockwise take down the antenna.

2. Install power supply and LED equipment

This connector structure belong to drawer structure, the device interface of power supply and LED is together, four interface one the left side (GND,CLK,DATA, LAT) is connect led equipment, the fifth interface is connect the anode V+ of power supply, the sixth interface is connect the cathode V- of power supply. This controller now can support 10 kinds of SPI strip in market, As follows:

Number	Model	Signal line
1	LPD6803	DATA、CLK
2	TM1803	DATA
3	UCS1903	DATA
4	WS2811	DATA
5	TM1812	DATA
6	TM1809	DATA
7	WS2801	DATA、CLK
8	TLS3001	DATA
9	TLS3008	DATA
10	P9813	DATA、CLK

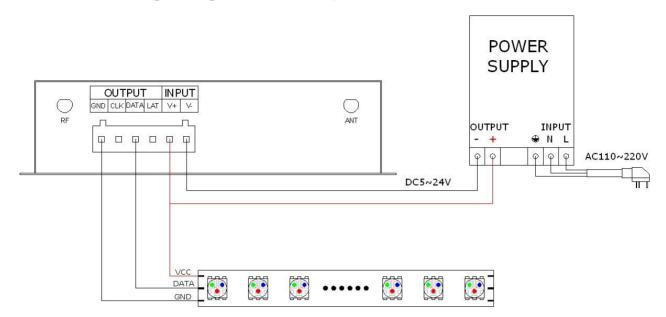
Can through cellphone connect WIFI, after setting strip model, maximum support point and RGB sequency, can connect the controller, connect diagram as below:



In above picture, if there are 2 signal lines, then you need to connect the ground wire, clockline, data line with GNG、CLK、DATA; if it is 1 signal line, then just need to connect the ground wire, data line with GND、DATA.

Remark: if the VCC voltage of strip is the same with controller input voltage, then it can directly connect with the controller V+; if not, then need to connect another power supply.

3. Connect single signal line strip condition



4. Connect double signal line strip condition:

